APPENDIX I:

THE LISTING OF CLAIMS (version with markings, showing the changes made):

- 13. (previously amended) A composite comprising
 - Aa) at least one first layer which comprises a mixture Ia, comprising a mix IIa consisting of
 - from 1 to 95% by weight, based on mix IIa, of an inorganic solid which conducts Li ions, having a primary particle size of from 5 nm 20 μm and
 - b) from 5 to 99% by weight, based on mix IIa, of a polymeric composition IV obtained by polymerization of
 - b1) from 5 to 100% by weight, based on the composition IV, of condensation product V of
 - at least one compound VI which is able to condense with a carboxylic acid or a sulfonic acid as defined in β or a derivative or a mixture of two or more thereof, and
 - at least 1 mol per mol of the compound VI of a β) carboxylic acid or sulfonic acid VII which contains at least one free-radically polymerizable functional group, or a derivative thereof or a mixture of two or more thereof,

and

b2) from 0 to 95% by weight, based on the composition IV, of a further compound VIII, having a mean molecular weight (number average) of at least 5000 and polyether segments in the main chain or a side chain, where the proportion by weight of the mix IIa in the mixture Ia is from 1 to 100% by weight, and the layer is free of an electron-conducting, electrochemically active compound,

and

at least one second layer which comprises a polymeric binder and an electron-conducting, electrochemically active compound,

wherein the first layer or layers and the second layer or layers are joined to one another by one of the two methods V1 or V2:

- V1) Lamination of the first layer or layers with the second layer or layers under the action of heat or under the action of heat and pressure, or
- V2) Corona treatment of the first layer or layers and the second layers or layers and subsequent bringing together of the corona-treated first layer or layers with the corona-treated second layer or layers.
- 14. (canceled)
- 15. (canceled)
- 16. (canceled)
- 17. (canceled)
- 18. (canceled)
- 19. (previously amended) A process for producing a composite as claimed in claim 13, which comprises joining the first layer or layers and the second layer or layers to one another by hot lamination.
- 20. (canceled)
- 21. (previously amended) A process for producing a composite as claimed in claim 13, which comprises subjecting the first layer or layers or the second layer or layers or the first layer or layers and the second layer or layers to a corona treatment and subsequently bringing together the first corona-treated layer or layers to the second corona-treated or untreated layer or layers.
- 22. (canceled)
- 23. (canceled)
- 24. (previously amended) A method of producing an electrochemical cell in a sensor, an electrochromic window, a display, a capacitor or an ion-conducting film which comprises utilizing the composite of claim 13.
- 25. (canceled)
- 26. (canceled)
- 27. (original) An electrochemical cell comprising a composite as claimed in claim 13 or a combination of two or more thereof.
- 28. (canceled)

- 29. (canceled)
- 30. (canceled)
- 31. (canceled)
- 32. (canceled)
- 33. (canceled)
- 34. (canceled)
- 35. (canceled)
- 36. (canceled)
- 37. (canceled)
- 38. (previously amended) A method of producing an automobile battery, instrument battery, planar battery or polymer battery which comprises utilizing the electrochemical cell of claim 27.
- 39. (canceled)
- 40. (canceled)
- 41. (canceled)
- 42. (previously added) A composite as claimed in claim 13, wherein the inorganic solid which conducts Li ions is a basic solid.
- 43. (previously added) A composite as claimed in claim 13, wherein the inorganic solid which conducts Li ions is selected from the group consisting of lithium borates, lithium aluminates, lithium aluminosilicates, mica, lithium zeolites, lithium carbides, Li₃N, lithium oxides, mixed lithium oxides, Li₂NH, LiNH₂, lithium phosphates, Li₂CO₃, lithium silicates, and lithium sulfates, and also two or more of the abovementioned solids which conduct Li ions.
- 44. (previously added) A composite as claimed in claim 13, wherein the inorganic solid which conducts Li ions is selected from the group consisting of Li₄B₆O₁₁ * xH₂O, Li₃(BO₂)₃, Li₂B₄O₇ * xH₂O, LiBO₂, where x can be from 0 to 20; Li₂O * Al₂O₃ * H₂O, Li₂ Al₂O₄, LiAlO₂; lithium-containing zeolites, feldspars, feldspar substitutes, phyllosilicates and inosilicates, LiAlSi₂O₆ (spodumene), LiAlSi₄O₁₀ (petullite), LiAlSi₄O₄ (eucryptite), K[Li,Al]₃[AlSi]₄O₁₀(F-OH)₂, K[Li,Al, Fe]₃[AlSi]₄O₁₀(F-OH)₂; lithium zeolites in fiber, sheet or cube form; Li₂C₂, Li₄C; Li₃N; LiAlO₂,

 Li_2MnO_3 , Li_2O , Li_2O_2 , Li_2MnO_4 , Li_2TiO_3 ; Li_2NH ; Li_1NH_2 ; Li_3PO_4 , Li_2PO_3 , Li_4CO_3 ; $\text{Li}_4\text{CO}_$

- 45. (previously added) A composite as claimed in claim 13, wherein the first layer or layers and the second layer or layers are joined to one another by the method V1 in the presence of a bonding layer or bonding layers.
- 46. (previously added) A composite as claimed in claim 45, wherein the bonding layer or layers is/are formed of polymeric compounds.
- 47. (previously added) A composite as claimed in claim 46, wherein the polymeric compounds are selected from the group consisting of polyethylene oxide; polyvinyl ethers; (co)polyacrylates, (co)polymethacrylates; polyvinylpyrrolidone; polyurethanes, wax-like (co)polyolefins; rubber-like materials; and polyisobutylene; and also mixtures of two or more thereof.
- 48. (previously added) A composite as claimed in claim 46, wherein the polymeric compounds are selected from the group consisting of polyethylene oxide; poly(vinyl methyl ether), poly(vinyl ethyl ether), poly(vinyl propyl ether), poly(vinyl butyl ether), poly(vinyl isobutyl ether); polybutyl (meth)acrylate, polyhexyl (meth)acrylate; polyvinylpyrrolidone; polyurethanes, polyethylene, polypropylene waxes, polyisoprene waxes; rubber-like materials; and polyisobutylene; and also mixtures of two or more thereof.
- 49. (previously added) A composite comprising
 - Aa) at least one first layer which comprises a mixture Ia, comprising a mix IIa consisting of
 - a) from 1 to 95% by weight, based on mix IIa, of an inorganic solid which conducts Li ions, having a primary particle size of from 5 nm 20 μ m and
 - b) from 5 to 99% by weight, based on mix IIa, of a polymeric composition IV obtained by polymerization of
 - b1) from 5 to 100% by weight, based on the composition IV, of condensation product V of
 - α) at least one compound VI which is able to condense with a carboxylic acid or a sulfonic acid

- as defined in $\boldsymbol{\beta}$ or a derivative or a mixture of two or more thereof, and
- β) at least 1 mol per mol of the compound VI of a carboxylic acid or sulfonic acid VII which contains at least one free-radically polymerizable functional group, or a derivative thereof or a mixture of two or more thereof,

and

b2) from 0 to 95% by weight, based on the composition IV, of a further compound VIII, having a mean molecular weight (number average) of at least 5000 and polyether segments in the main chain or a side chain, where the proportion by weight of the mix IIa in the mixture Ia is from 1 to 100% by weight, and the layer is free of an electron-conducting, electrochemically active compound,

and

B) at least one second layer which comprises a polymeric binder and an electron-conducting, electrochemically active compound,

wherein the first layer or layers and the second layer or layers are joined to one another by one lamination of the first layer or layers with the second layer or layers under the action of heat or under the action of heat and pressure, in the presence of a bonding layer or bonding layers.

- 50. (previously added) A composite as claimed in claim 49, wherein the bonding layer or layer is/are formed of polymeric compounds.
- 51. (previously added) A process for producing a composite as claimed in claim 49, which comprises joining the first layer or layers and the second layer or layers and bonding layer or layers to one another by hot lamination.
- 52. (previously added) A process for producing a composite as claimed in claim 49, which comprises subjecting the first layer or layers or the second layer or layers or the first layer or layers and the second layer or layers to a corona treatment and subsequently bringing together the first corona-treated layer or layers to the second corona-treated or untreated layer or layers.

- 53. (previously added) A composite as claimed in claim 45, wherein the bonding layer or layers comprise(s) an inorganic solid which conducts Li ions and polymeric compounds.
- 54. (previously added) A composite as claimed in claim 49, the bonding layer or bonding layers comprise(s) and inorganic solid which conducts Li ions and polymeric compounds.

APPENDIX II:

THE AMENDED CLAIMS (clean version of all claims):

- 13. (previously amended) A composite comprising
 - Aa) at least one first layer which comprises a mixture Ia, comprising a mix IIa consisting of
 - from 1 to 95% by weight, based on mix IIa, of an inorganic solid which conducts Li ions, having a primary particle size of from 5 nm 20 µm and
 - b) from 5 to 99% by weight, based on mix IIa, of a polymeric composition IV obtained by polymerization of
 - bl) from 5 to 100% by weight, based on the composition IV, of condensation product V of
 - at least one compound VI which is able to condense with a carboxylic acid or a sulfonic acid as defined in β or a derivative or a mixture of two or more thereof, and
 - β) at least 1 mol per mol of the compound VI of a carboxylic acid or sulfonic acid VII which contains at least one free-radically polymerizable functional group, or a derivative thereof or a mixture of two or more thereof,

and

b2) from 0 to 95% by weight, based on the composition IV, of a further compound VIII, having a mean molecular weight (number average) of at least 5000 and polyether segments in the main chain or a side chain, where the proportion by weight of the mix IIa in the mixture Ia is from 1 to 100% by weight, and the layer is free of an electron-conducting, electrochemically active compound,

and

at least one second layer which comprises a polymeric binder and an electron-conducting, electrochemically active compound,

wherein the first layer or layers and the second layer or layers are joined to one another by one of the two methods V1 or V2:

- V1) Lamination of the first layer or layers with the second layer or layers under the action of heat or under the action of heat and pressure, or
- V2) Corona treatment of the first layer or layers and the second layers or layers and subsequent bringing together of the corona-treated first layer or layers with the corona-treated second layer or layers.
- 19. (previously amended) A process for producing a composite as claimed in claim 13, which comprises joining the first layer or layers and the second layer or layers to one another by hot lamination.
- 21. (previously amended) A process for producing a composite as claimed in claim 13, which comprises subjecting the first layer or layers or the second layer or layers or the first layer or layers and the second layer or layers to a corona treatment and subsequently bringing together the first corona-treated layer or layers to the second corona-treated or untreated layer or layers.
- 24. (previously amended) A method of producing an electrochemical cell in a sensor, an electrochromic window, a display, a capacitor or an ion-conducting film which comprises utilizing the composite of claim 13.
- 27. (original) An electrochemical cell comprising a composite as claimed in claim 13 or a combination of two or more thereof.
- 38. (previously amended) A method of producing an automobile battery, instrument battery, planar battery or polymer battery which comprises utilizing the electrochemical cell of claim 27.
- 42. (previously added) A composite as claimed in claim 13, wherein the inorganic solid which conducts Li ions is a basic solid.
- 43. (previously added) A composite as claimed in claim 13, wherein the inorganic solid which conducts Li ions is selected from the group consisting of lithium borates, lithium aluminates, lithium aluminosilicates, mica, lithium zeolites, lithium carbides, Li₃N, lithium oxides, mixed lithium oxides, Li₂NH, LiNH₂, lithium phosphates, Li₂CO₃, lithium silicates, and lithium sulfates, and also two or more of the abovementioned solids which conduct Li ions.
- 44. (previously added) A composite as claimed in claim 13, wherein the inorganic solid which conducts Li ions is selected from the group consisting of $\text{Li}_4\text{B}_6\text{O}_{11}$ * xH_2O , $\text{Li}_3(\text{BO}_2)_3$, $\text{Li}_2\text{B}_4\text{O}_7$ * xH_2O , Li_8O_7 ,

where x can be from 0 to 20; Li₂O * Al₂O₃ * H₂O, Li₂ Al₂O₄, LiAlO₂; lithium-containing zeolites, feldspars, feldspar substitutes, phyllosilicates and inosilicates, LiAlSi₂O₆ (spodumene), LiAlSi₄O₁₀ (petullite), LiAlSiO₄ (eucryptite), K[Li,Al]₃[AlSi]₄O₁₀(F-OH)₂, K[Li,Al, Fe]₃[AlSi]₄O₁₀(F-OH)₂; lithium zeolites in fiber, sheet or cube form; Li₂C₂, Li₄C; Li₃N; LiAlO₂, Li₂MnO₃, Li₂O₂, Li₂MnO₄, Li₂TiO₃; Li₂NH; LiNH₂; Li₃PO₄, LiPO₃, LiAlFPO₄, LiAl(OH)PO₄, LiFePO₄, LiMnPO₄; Li₂CO₃; Li₂SiO₃, Li₂SiO₄, Li₆Si₂; Li₂SO₄, LiHSO₄, and LiKSO₄, and also mixtures of two or more of the abovementioned solids which conduct Li ions.

- 45. (previously added) A composite as claimed in claim 13, wherein the first layer or layers and the second layer or layers are joined to one another by the method V1 in the presence of a bonding layer or bonding layers.
- 46. (previously added) A composite as claimed in claim 45, wherein the bonding layer or layers is/are formed of polymeric compounds.
- 47. (previously added) A composite as claimed in claim 46, wherein the polymeric compounds are selected from the group consisting of polyethylene oxide; polyvinyl ethers; (co)polyacrylates, (co)polymethacrylates; polyvinylpyrrolidone; polyurethanes, wax-like (co)polyolefins; rubber-like materials; and polyisobutylene; and also mixtures of two or more thereof.
- 48. (previously added) A composite as claimed in claim 46, wherein the polymeric compounds are selected from the group consisting of polyethylene oxide; poly(vinyl methyl ether), poly(vinyl ethyl ether), poly(vinyl propyl ether), poly(vinyl butyl ether), poly(vinyl isobutyl ether); polybutyl (meth)acrylate, polyhexyl (meth)acrylate; polyvinylpyrrolidone; polyurethanes, polyethylene, polypropylene waxes, polyisoprene waxes; rubber-like materials; and polyisobutylene; and also mixtures of two or more thereof.
- 49. (previously added) A composite comprising
 - Aa) at least one first layer which comprises a mixture Ia, comprising a mix IIa consisting of
 - a) from 1 to 95% by weight, based on mix IIa, of an inorganic solid which conducts Li ions, having a primary particle size of from 5 nm 20 μ m and

- o) from 5 to 99% by weight, based on mix IIa, of a polymeric composition IV obtained by polymerization of
 - bl) from 5 to 100% by weight, based on the composition IV, of condensation product V of
 - α) at least one compound VI which is able to condense with a carboxylic acid or a sulfonic acid as defined in β or a derivative or a mixture of two or more thereof, and
 - β) at least 1 mol per mol of the compound VI of a carboxylic acid or sulfonic acid VII which contains at least one free-radically polymerizable functional group, or a derivative thereof or a mixture of two or more thereof,

and

b2) from 0 to 95% by weight, based on the composition IV, of a further compound VIII, having a mean molecular weight (number average) of at least 5000 and polyether segments in the main chain or a side chain, where the proportion by weight of the mix IIa in the mixture Ia is from 1 to 100% by weight, and the layer is free of an electron-conducting, electrochemically active compound,

and

B) at least one second layer which comprises a polymeric binder and an electron-conducting, electrochemically active compound,

wherein the first layer or layers and the second layer or layers are joined to one another by one lamination of the first layer or layers with the second layer or layers under the action of heat or under the action of heat and pressure, in the presence of a bonding layer or bonding layers.

- 50. (previously added) A composite as claimed in claim 49, wherein the bonding layer or layer is/are formed of polymeric compounds.
- 51. (previously added) A process for producing a composite as claimed in claim 49, which comprises joining the first layer or layers and the second layer or layers and bonding layer or layers to one another by hot lamination.

- 52. (previously added) A process for producing a composite as claimed in claim 49, which comprises subjecting the first layer or layers or the second layer or layers or the first layer or layers and the second layer or layers to a corona treatment and subsequently bringing together the first corona-treated layer or layers to the second corona-treated or untreated layer or layers.
- 53. (previously added) A composite as claimed in claim 45, wherein the bonding layer or layers comprise(s) an inorganic solid which conducts Li ions and polymeric compounds.
- 54. (previously added) A composite as claimed in claim 49, the bonding layer or bonding layers comprise(s) and inorganic solid which conducts Li ions and polymeric compounds.